

ISOLATION OF PLASMID DNA

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Inventor: YAMAMOTO AKIRA
Applicant: ASAHI OPTICAL CO LTD
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Abstract of JP10057056

PROBLEM TO BE SOLVED: To provide a method for efficiently obtaining a purified plasmid DNA from a solution containing the plasmid DNA and RNA with a simple operation without the need of any special device.

SOLUTION: First, hydroxyapatite particles are suspended in a 0.2-0.4M phosphate buffer solution of pH 4-9. Secondly, a solution containing both a plasmid DNA and RNA obtained after lytic operation is added to the resultant suspension to effect adsorption of the plasmid DNA to the hydroxyapatite particles. Subsequently, the resultant hydroxyapatite particles are isolated and then brought into contact with a 0.2-0.4M phosphate buffer solution of \leq pH6 to effect desorption of the aimed plasmid DNA.

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